



Application  
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IDS Flag Clearance for Application 09966354

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Information

Content	Mailroom Date	Entry Number	IDS Review	Last Modified	Reviewer
M844	2004-05-05	18	Y <input checked="" type="checkbox"/>	2004-05-17 07:52:51.0	ltyson1
Update					

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
		driv\$6 same liquid same crystal same display and first same n-th same pixel\$6 and first same n-th same signal same voltage\$1 and appl\$6 and first same n-th same pixel\$1 same electrode\$1 and first same n-th same pixel\$1 and respectively same first same (sub-frame\$6 or sub adj frame or sub same frame) period, wherein (n+1)-th to 2n-th signal voltages are to be applied to the first to n-th pixel electrodes respectively in a second sub-frame period, wherein response periods of liquid crystal of the first to n-th pixels from when the first to n-th signal voltages are applied to when the (n+1)-th to 2n-th signal voltages are applied respectively are calculated, and wherein in an order of the calculated response periods of liquid crystal of the first to n-th pixels from longest to shortest, the (n+1)-th to 2n-th signal voltages are applied to the first to n-th pixel electrodes in the second sub-frame period	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 09:19
L3	4	driv\$6 same liquid same crystal same display and pixel\$6 SAME signal\$6 same voltage\$1 SAME Apply\$6 same pixel\$1 same electrode\$1 same (sub-frame\$6 or sub adj frame\$6 or sub same frame\$6) AND period\$1 AND SECOND SAME signal\$6 same voltage\$1 same appli\$6 same pixel\$1 same electrode\$1 same second same sub-frame same period	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 15:47
L4	15	driv\$6 same liquid same crystal same display and pixel\$6 SAME signal\$6 same voltage\$1 SAME Apply\$6 same pixel\$1 same electrode\$1 same (sub-frame\$6 or sub adj frame\$6 or sub same frame\$6) AND period\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 15:48
S1	308	driv\$6 same liquid same crystal same display and first same n-th same pixel\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 09:16

## EAST Search History

S2	0	driv\$6 same liquid same crystal same display and first same n-th same pixel\$6 and first same n-th same signal same voltage\$1 and appl\$6 and first same n-th same pixel\$1 same electrode\$1 and first same n-th same pixel\$1 and respectively same first same (sub-frame\$6 or sub adj frame or sub same frame) same period\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 09:21
S3	88	driv\$6 same liquid same crystal same display and first same n-th same pixel\$6 and first same n-th same signal\$6 same voltage\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 09:21
S4	0	driv\$6 same liquid same crystal same display and first same n-th same pixel\$6 and first same n-th same signal\$6 same voltage\$1 and appl\$6 and first same n-th same pixel\$1 same electrode\$1 and first same n-th same pixel\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 09:22
S5	39	driv\$6 same liquid same crystal same display and first same n-th same pixel\$6 and first same n-th same signal\$6 same voltage\$1 and Apply\$6 and first same n-th same pixel\$1 same electrode\$1 and first same n-th same pixel\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 09:22
S6	0	driv\$6 same liquid same crystal same display and first same n-th same pixel\$6 and first same n-th same signal\$6 same voltage\$1 and Apply\$6 and first same n-th same pixel\$1 same electrode\$1 and first same n-th same pixel\$1 and respectively same first same (sub-frame\$6 or sub adj frame or sub same frame) same period\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 09:23
S7	0	driv\$6 same liquid same crystal same display and first same n-th same pixel\$6 and first same n-th same signal\$6 same voltage\$1 and Apply\$6 and first same n-th same pixel\$1 same electrode\$1 and first same n-th same pixel\$1 and first same (sub-frame\$6 or sub adj frame or sub same frame) same period\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 09:23

## EAST Search History

S8	2	driv\$6 same liquid same crystal same display and first same n-th same pixel\$6 and first same n-th same signal\$6 same voltage\$1 and Apply\$6 and first same n-th same pixel\$1 same electrode\$1 and first same n-th same pixel\$1 and first same (sub-frame\$6 or sub adj frame\$6 or sub same frame\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 09:24
S9	2	driv\$6 same liquid same crystal same display and first same n-th same pixel\$6 and first same n-th same signal\$6 same voltage\$1 and Apply\$6 and first same n-th same pixel\$1 same electrode\$1 and first same n-th same pixel\$1 and first same (sub-frame\$6 or sub adj frame\$6 or sub same frame\$6) AND period\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 09:31
S10	15	driv\$6 same liquid same crystal same display and pixel\$6 SAME signal\$6 same voltage\$1 SAME Apply\$6 same pixel\$1 same electrode\$1 same (sub-frame\$6 or sub adj frame\$6 or sub same frame\$6) AND period\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 09:32
S11	14	driv\$6 same liquid same crystal same display and pixel\$6 SAME signal\$6 same voltage\$1 SAME Apply\$6 same pixel\$1 same electrode\$1 same (sub-frame\$6 or sub adj frame\$6 or sub same frame\$6) AND period\$1 AND SECOND SAME signal\$6 same voltage\$1 appli\$6 same pixel\$1 same electrode\$1 same second same sub-frame same period and response\$6 same period\$1 same liquid same crystal same calculate\$6 and order\$6 same calculate\$6 same response\$6 same period\$1 same liquid same crystal same pixel\$1 same long\$6 same short\$6 same signal\$6 same voltage\$1 same appl\$6 same pixel\$1 same electrode\$1 same second same sub-frame\$6 same period\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 09:49

## EAST Search History

S12	14	driv\$6 same liquid same crystal same display and pixel\$6 SAME signal\$6 same voltage\$1 SAME Apply\$6 same pixel\$1 same electrode\$1 same (sub-frame\$6 or sub adj frame\$6 or sub same frame\$6) AND period\$1 AND SECOND SAME signal\$6 same voltage\$1 appli\$6 same pixel\$1 same electrode\$1 same second same sub-frame same period and response\$6 same period\$1 same liquid same crystal same calculate\$6 and order\$6 same calculate\$6 same response\$6 same period\$1 same liquid same crystal same pixel\$1 same long\$6 same short\$6 same signal\$6 same voltage\$1 same appl\$6 same pixel\$1 same electrode\$1 same second same sub-frame\$6 same period\$1 and "345"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 10:50
S13	14	driv\$6 same liquid same crystal same display and pixel\$6 SAME signal\$6 same voltage\$1 SAME Apply\$6 same pixel\$1 same electrode\$1 same (sub-frame\$6 or sub adj frame\$6 or sub same frame\$6) AND period\$1 AND SECOND SAME signal\$6 same voltage\$1 appli\$6 same pixel\$1 same electrode\$1 same second same sub-frame same period and response\$6 same period\$1 same liquid same crystal same calculate\$6 and order\$6 same calculate\$6 same response\$6 same period\$1 same liquid same crystal same pixel\$1 same long\$6 same short\$6 same signal\$6 same voltage\$1 same appl\$6 same pixel\$1 same electrode\$1 same second same sub-frame\$6 same period\$1 and "345"/\$.ccls. and gray\$6 same scal\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 10:58

## EAST Search History

S14	0	driv\$6 same liquid same crystal same display and pixel\$6 SAME signal\$6 same voltage\$1 SAME Apply\$6 same pixel\$1 same electrode\$1 same (sub-frame\$6 or sub adj frame\$6 or sub same frame\$6) AND period\$1 AND SECOND SAME signal\$6 same voltage\$1 same appli\$6 same pixel\$1 same electrode\$1 same second same sub-frame same period and response\$6 same period\$1 same liquid same crystal same calculate\$6 and order\$6 same calculate\$6 same response\$6 same period\$1 same liquid same crystal same pixel\$1 same long\$6 same short\$6 same signal\$6 same voltage\$1 same appl\$6 same pixel\$1 same electrode\$1 same second same sub-frame\$6 same period\$1 and "345"/\$.ccls. and gray\$6 same scal\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 11:00
S17	4	driv\$6 same liquid same crystal same display and pixel\$6 SAME signal\$6 same voltage\$1 SAME Apply\$6 same pixel\$1 same electrode\$1 same (sub-frame\$6 or sub adj frame\$6 or sub same frame\$6) AND period\$1 AND SECOND SAME signal\$6 same voltage\$1 same appli\$6 same pixel\$1 same electrode\$1 same second same sub-frame same period	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 11:02
S18	1	driv\$6 same liquid same crystal same display and pixel\$6 SAME signal\$6 same voltage\$1 SAME Apply\$6 same pixel\$1 same electrode\$1 same (sub-frame\$6 or sub adj frame\$6 or sub same frame\$6) AND period\$1 AND SECOND SAME signal\$6 same voltage\$1 same appli\$6 same pixel\$1 same electrode\$1 same second same sub-frame same period and response\$6 same period\$1 same liquid same crystal same calculate\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 12:35

## EAST Search History

S19	0	driv\$6 same liquid same crystal same display and pixel\$6 SAME signal\$6 same voltage\$1 SAME Apply\$6 same pixel\$1 same electrode\$1 same (sub-frame\$6 or sub adj frame\$6 or sub same frame\$6) AND period\$1 AND SECOND SAME signal\$6 same voltage\$1 same appli\$6 same pixel\$1 same electrode\$1 same second same sub-frame same period and response\$6 same period\$1 same liquid same crystal same calculate\$6 and order\$6 same calculate\$6 same response\$6 same period\$1 same liquid same crystal same pixel\$1 same long\$6 same short\$6 same signal\$6 same voltage\$1 same appli\$6 same pixel\$1 same electrode\$1 same second same sub-frame\$6 same period\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 11:04
S20	1	driv\$6 same liquid same crystal same display and pixel\$6 SAME signal\$6 same voltage\$1 SAME Apply\$6 same pixel\$1 same electrode\$1 same (sub-frame\$6 or sub adj frame\$6 or sub same frame\$6) AND period\$1 AND SECOND SAME signal\$6 same voltage\$1 same appli\$6 same pixel\$1 same electrode\$1 same second same sub-frame same period and response\$6 same period\$1 same liquid same crystal same calculate\$6 and order\$6 same calculate\$6 same response\$6 same period\$1 same liquid same crystal same pixel\$1 same long\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 11:05

## EAST Search History

S21	1	driv\$6 same liquid same crystal same display and pixel\$6 SAME signal\$6 same voltage\$1 SAME Apply\$6 same pixel\$1 same electrode\$1 same (sub-frame\$6 or sub adj frame\$6 or sub same frame\$6) AND period\$1 AND SECOND SAME signal\$6 same voltage\$1 same appli\$6 same pixel\$1 same electrode\$1 same second same sub-frame same period and response\$6 same period\$1 same liquid same crystal same calculate\$6 and order\$6 same calculate\$6 same response\$6 same period\$1 same liquid same crystal same pixel\$1 same long\$6 same signal\$6 same voltage\$1 same appl\$6 same pixel\$1 same electrode\$1 same second same sub-frame\$6 same period\$1 and "345"/\$.ccls. and gray\$6 same scal\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 11:06
S22	1	driv\$6 same liquid same crystal same display and pixel\$6 SAME signal\$6 same voltage\$1 SAME Apply\$6 same pixel\$1 same electrode\$1 same (sub-frame\$6 or sub adj frame\$6 or sub same frame\$6) AND period\$1 AND SECOND SAME signal\$6 same voltage\$1 same appli\$6 same pixel\$1 same electrode\$1 same second same sub-frame same period and response\$6 same period\$1 same liquid same crystal same calculate\$6 and order\$6 same calculate\$6 same response\$6 same period\$1 same liquid same crystal same pixel\$1 same long\$6 same signal\$6 same voltage\$1 same appl\$6 same pixel\$1 same electrode\$1 same second same sub-frame\$6 same period\$1 and "345"/\$.ccls. and gray\$6 same scal\$6 and short\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 11:07
S23	2	"6473117".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 12:28
S24	0	"6473117".pn. and sub adj frame same green	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 12:30



## EAST Search History

S25	0	"6473117".pn. and (sub-frame\$6 or sub adj frame\$6 or sub same frame\$6) same green	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 12:31
S26	0	"6473117".pn. and gray\$6 adj scale\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 12:31
S27	2	"6473117".pn. and contrast\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 12:31
S28	1	"20020075216" and (sub-frame\$6 or sub adj frame\$6 or sub same frame\$6) same green	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 12:34
S29	1	driv\$6 same liquid same crystal same display and pixel\$6 SAME signal\$6 same voltage\$1 SAME Apply\$6 same pixel\$1 same electrode\$1 same (sub-frame\$6 or sub adj frame\$6 or sub same frame\$6) AND period\$1 AND SECOND SAME signal\$6 same voltage\$1 same appli\$6 same pixel\$1 same electrode\$1 same second same sub-frame same period and response\$6 and period\$1 and calculate\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 12:37
S30	4	driv\$6 same liquid same crystal same display and pixel\$6 SAME signal\$6 same voltage\$1 SAME Apply\$6 same pixel\$1 same electrode\$1 same (sub-frame\$6 or sub adj frame\$6 or sub same frame\$6) AND period\$1 AND SECOND SAME signal\$6 same voltage\$1 same appli\$6 same pixel\$1 same electrode\$1 same second same sub-frame same period and response\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 12:39

## EAST Search History

S31	7852874	driv\$6 same liquid same crystal same display and pixel\$6 SAME signal\$6 same voltage\$1 SAME Apply\$6 same pixel\$1 same electrode\$1 same (sub-frame\$6 or sub adj frame\$6 or sub same frame\$6) AND period\$1 AND SECOND SAME signal\$6 same voltage\$1 same appli\$6 same pixel\$1 same electrode\$1 same second same sub-frame same period and response\$6 and calculate\$6 or compute\$6 or add\$6 or multiply\$6 ot subtarct\$6 or divid\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 12:41
S32	4	driv\$6 same liquid same crystal same display and pixel\$6 SAME signal\$6 same voltage\$1 SAME Apply\$6 same pixel\$1 same electrode\$1 same (sub-frame\$6 or sub adj frame\$6 or sub same frame\$6) AND period\$1 AND SECOND SAME signal\$6 same voltage\$1 same appli\$6 same pixel\$1 same electrode\$1 same second same sub-frame same period and response\$6 and (calculate\$6 or compute\$6 or add\$6 or multiply\$6 ot subtarct\$6 or divid\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/12 12:43